

# The Scientific Revolution & Enlightenment



Mckay Ch. 18

*18-1: 6<sup>th</sup> Ed. p. 594-604, 7th Ed. p. 594-605 – The Scientific Revolution*

1. What was the Ptolemaic concept of astronomy?
2. What was the Copernican concept of astronomy and what were the religious and scientific implications of it?
3. How did the new scientific theory and discoveries alter the concept of God and religion?
4. What factors limited the immediate impact of the new science on the masses?
5. What is the scientific method?
6. What was Galileo's mechanistic concept of the universe?
7. How did Newton summarize the achievements of the Scientific Revolution?

8. How did Bacon and Descartes contribute to the development of the modern scientific method?

9. What were the consequences of the rise of modern science?

## Identification

geocentric theory	
heliocentric theory <i>On the Revolutions of the Heavenly Spheres</i>	
<i>Dialogue on the Two Chief Systems of the World</i>	
<i>Mathematical Principles of Natural Philosophy (Principia)</i>	
inductive reasoning (empiricism)	
deductive reasoning	
Cartesian dualism	

**18-2: 6th Ed. p. 604- 614, 7<sup>th</sup> Ed. p. 605-614 – The Enlightenment**

10. What was the *Enlightenment*?

11. What were the central concepts of the Enlightenment?

12. Who were the philosophers and what did they believe?

<b>Name</b>	<b>Major Work</b>	<b>Beliefs</b>
Bernard de Fontenelle (1657-1757)		
John Locke (1632-1704)		
Montesquieu (1689-1755)		
François Marie Arouet (Voltaire) (1694-1778)		
David Hume (1711-1776)		

Jean-Jacques Rousseau (1712-1778)		
Jean le Rond d'Alembert (1717-1783)		
Baron Paul d'Holbach (1723-1789)		
Marie-Jean Caritat (1743-1794)		
Immanuel Kant (1724-1804)		

13. Explain what is meant by the “reading revolution” that took place in France and throughout Europe during this period.

14. Describe the role of women in promoting Enlightenment ideas.

15. Describe the interests and actions of Madame du Chatelet and Madame Geoffrin.

### Identification

skepticism	
salons	

### **18-3: 6<sup>th</sup> Ed. p. 614-624, 7<sup>th</sup> Ed. p. 615-624 – The Enlightenment & Absolutism**

16. In what ways were each of the following *enlightened* monarchs?

Frederick II of Prussia	
Catherine the Great of Russia	
Maria Theresa and Joseph II of Austria	

17. What was the effect of Catherine's reign on:

- a. the Russian nobility?
- b. the Russian serfs?
- c. the position of Russia in the European balance of power?

18. What was the cause of the power struggle between the aristocrats and Louis XV of France?